

# Missouri Department of Natural Resources



## PUBLIC NOTICE

### DRAFT MISSOURI STATE OPERATING PERMIT

DATE: November 8, 2002

In accordance with the state Clean Water Law, Chapter 644, RSMo, Clean Water Commission regulation 10 CSR 20-6.010, and the federal Clean Water Act, the applicants listed herein have applied for authorization to either discharge to waters of the state or to operate a no-discharge wastewater treatment facility. The proposed permits for these operations are consistent with applicable water quality standards, effluent standards and/or treatment requirements or suitable timetables to meet these requirements (see 10 CSR 20-7.015 and 7.031). All permits will be issued for a period of five years, unless noted otherwise in the Public Notice for that discharge.

On the basis of preliminary staff review and the application of applicable standards and regulations, the Missouri Department of Natural Resources (MDNR), as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions. The proposed determinations are tentative pending public comment.

Persons wishing to comment on the proposed permit conditions are invited to submit them in writing to the Department of Natural Resources, Water Pollution Control Program, P.O. Box 176, Jefferson City, Missouri 65102, ATTN: Philip A. Schroeder, Permit Section Chief. Please include the permit number in all comment letters.

Comments should be confined to the issues relating to the proposed action and permit(s) and the effect on water quality. The MDNR may not consider as relevant comments or objections to a permit based on issues outside the authority of the Clean Water Commission, (see Curdt v. Mo. Clean Water Commission, 586 S.W.2d 58 Mo. App. 1979).

All comments must be postmarked by December 8, 2002 or received in our office by 5:00 p.m. on December 11, 2002. The requirement of a signed document makes it impossible to accept email comments for consideration at this time. Comments will be considered in the formulation of all final determinations regarding the applications. If response to this notice indicates significant public interest, a public meeting or hearing may be held after due notice for the purpose of receiving public comment on the proposed permit or determination. Public hearings and/or issuance of the permit will be conducted or processed according to 10 CSR 20-6.020.

Copies of all draft permits and other information including copies of applicable regulations are available for inspection and copying at DNR's website, <http://www.dnr.state.mo.us/wpscd/wpcp/homewpcp.htm>, or at the Department of Natural Resources, Water Pollution Control Program, 205 Jefferson Street, P.O. Box 176, Jefferson City, Missouri 65102, between the hours of 8:00 a.m. and 5:00 p.m., Monday through Friday.

Public Notice Date: November 8, 2002

Permit Number: MO-0123846

Northeast Regional Office

<b>FACILITY NAME AND ADDRESS</b>	<b>NAME AND ADDRESS OF OWNER</b>
Junction Restaurant & Lounge Junction Highway 19 & 154 Perry, MO 63462	Stanley Smith 214 Mexico Road Perry, MO 63462
<b>RECEIVING STREAM &amp; LEGAL DESCRIPTION</b>	<b>TYPE OF DISCHARGE</b>
Unnamed Tributary to Mace Branch (Perry Lake #2), Sec. 25, T54N, R7W, Ralls County	Domestic, modification to add Outfall #002

STATE OF MISSOURI  
DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



**MISSOURI STATE OPERATING PERMIT**

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92<sup>nd</sup> Congress) as amended,

Permit No. MO-0123846

Owner: Stanley Smith  
Address: 214 Mexico Road, Perry, MO 63462

Continuing Authority: Same as above  
Address: Same as above

Facility Name: Junction Restaurant & Lounge  
Facility Address: Junction Highway 19 & 154, Perry, MO 63462

Legal Description: S ½, NE ¼, SW ¼, Sec. 25, T54N, R7W, Ralls County

Receiving Stream: Unnamed Tributary to Mace Branch (U)  
First Classified Stream and ID: Perry Lake #2 (L3)(07048)  
USGS Basin & Sub-watershed No.: (07110007-010002)

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

**FACILITY DESCRIPTION**

Outfall #001 - Motel/Restaurant - SIC #4952

No-discharge system

Single cell lagoon/lift station/holding tank/retained in lagoon/sludge is land applied.

Design population equivalent is 78.

Design flow is 3,350 gallons per day.

Actual flow is 3,350 gallons per day.

Design sludge production is 1.17 dry tons/year.

Actual sludge production is 1.17 dry tons/year.

Outfall #002 - Swimming Pool - SIC #7999

Discharge of filter backwash and pool drainage from swimming pool at motel.

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

June 28, 2002

Effective Date

December 27, 2002

Revised Date

Stephen M. Mahood, Director, Department of Natural Resources  
Executive Secretary, Clean Water Commission

June 27, 2007

Expiration Date

Jim Hull, Director of Staff, Clean Water Commission

**FACILITY DESCRIPTION (continued)**Outfall #001 - Irrigation System Design

**Receiving Stream Watershed:** a gaining stream setting/into a classified lake/within 2 miles of a losing stream

**Facility Type:** No-discharge Storage and Irrigation System for year round flows into lagoon.

<b><u>Lagoon Dimensions:</u></b>	<b><u>Surface Area</u></b>	<b><u>Depth from Bottom</u></b>
Cell 1 & 2	20,176 sq.ft.	5 ft. depth
Maximum operating level		4 ft. depth
Minimum operating level		1 ft. depth
Storage volume (minimum to maximum water levels)	507,000	gallons

<b><u>Storage Capacity:</u></b>	<b><u>Avg Annual</u></b>
Design with 1-in 10 year flows:	120 days

**Land Application:**

Irrigation Volume /year: 1,319,490 gallons (including 1-in-10 year flows)

Irrigation areas: 4 acres total available

Application rates/acre: 0.5 inch/hour; 1 inch/day; 3 inches/week; 24 inches/year

Field slopes: less than 1 percent

Equipment type: perforated plastic pipe

Vegetation: grass land

Application rate is based on: hydraulic loading rate

<b>A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS</b>					PAGE NUMBER 3 of 6	
					PERMIT NUMBER MO-0123846	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfall #001</u> - Emergency discharge from lagoon (Note 1)						
Flow	MGD	*		*	once/day***	24 hr. estimate
Biochemical Oxygen Demand <sub>5</sub> ****	mg/L		65	45	once/week***	grab
Total Suspended Solids****	mg/L		110	70	once/week***	grab
pH - Units	SU	**		**	once/week***	grab
<u>Outfall #001</u> - Land Application Operational Monitoring (Notes 2 & 3)						
Lagoon Freeboard	feet	*			once/month	measured
Irrigation Period	hours	*			daily	total
Volume Irrigated	gallons	*			daily	total
Application Area	acres	*			daily	total
Application Rate	inches/ acre	*			daily	total
Rainfall	inches	*			daily	total
<u>Outfall #002</u> - Filter Backwash and Pool Discharge						
<u>Backwash Outfalls</u>						
Flow	Gallons	*		*	once/year	estimate
Chlorine, Total Residual	mg/L	1.0		1.0	once/year	grab
Settleable Solids	mL/L/hr	1.5		1.0	once/year	grab
pH- Units	SU	**		**	once/year	grab
<u>Pool Drainage</u>						
Flow	Gallons	*		*	once/year	estimate
Chlorine, Total Residual	mg/L	1.0		1.0	once/year	grab
pH - Units	SU	**		**	once/year	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>ANNUALLY</u> ; THE FIRST REPORT IS DUE <u>January 28, 2004</u> .						
<b>B. STANDARD CONDITIONS</b>						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Part I &amp; III</u> STANDARD CONDITIONS DATED <u>October 1, 1980 and August 15, 1994</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- \* Monitoring requirement only.
- \*\* pH is measured in pH units and is not to be averaged. The pH is to be maintained at or above 6.0 pH units.
- \*\*\* Monitor only when discharge occurs. Report as no-discharge when a discharge does not occur during the report period.
- \*\*\*\* This facility is required to meet a removal efficiency of 65% or more.

Note 1 - **No-discharge facility requirements**. Wastewater shall be stored and land applied during suitable conditions so that there is no-discharge from the lagoon or irrigation site. An emergency discharge may occur when excess wastewater has accumulated above feasible irrigation rates due to precipitation exceeding the 1-in-10-year 365 day rainfall or the 25-year 24-hour storm event.

Note 2 - Lagoon freeboard shall be reported as lagoon water level in feet below the overflow level. See Special Conditions for Wastewater Irrigation System requirements.

Note 3 - Records shall be maintained and summarized into an annual operating report, which shall be submitted by January 28th of each year for the previous calendar year period. The report shall include the following:

- a. Record of maintenance and repairs performed during the year, average number of times per month the facility is checked to see if it is operating properly, and description of any unusual operating conditions encountered during the year;
- b. The number of days the lagoon has discharged during the year, the discharge flow, the reasons discharge occurred and effluent analysis performed; and
- c. A summary of the irrigation operations including freeboard at the start and end of the irrigation season, the number of days of irrigation for each month, the total gallons irrigated, the total acres used, crops grown, crop yields per acre, the application rate in inches/acre per day and for the year, the monthly and annual precipitation received at the facility and summary of testing results.

C. SPECIAL CONDITIONS

- 1. Report as no-discharge when a discharge does not occur during the report period.
- 2. Outfalls must be marked in field and on the topographic site map submitted with the permit application.
- 3. Wastewater Irrigation System. (Outfall #001)
  - a. Discharge Reporting. Any unauthorized discharge from the lagoon or irrigation system shall be reported to the department as soon as possible but always within 24 hours. Discharge is allowed only as described in the Facility Description and Effluent Limitations sections of this permit.
  - b. Irrigation Design. Design and operation shall be in accordance with 10 CSR 20-8.020(15). Permittee shall operate the land application system in accordance with the design parameters listed in the Facility Description section of this permit:
    - (1) No-Discharge System. When the Facility Description is "No-Discharge", wastewater must be stored and irrigated at appropriate times. There shall be no-discharge from the irrigation site or storage lagoon except due to precipitation exceeding either the 1-in-10 year rainfall event for the design storage period or the 25-year-24-hour rainfall event.

C. SPECIAL CONDITIONS (continued)

4. This permit may be reopened and modified, or alternatively revoked and reissued, to:
- (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
    - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
    - (2) controls any pollutant not limited in the permit.
  - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
  - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

5. Water Quality Standards

- a. Discharges to waters of the state shall not cause a violation of water quality standards rule under 10 CSR 20-7.031, including both specific and general criteria.
- b. General Criteria. The following general water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
  - (1) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
  - (2) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
  - (3) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
  - (4) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
  - (5) There shall be no significant human health hazard from incidental contact with the water;
  - (6) There shall be no acute toxicity to livestock or wildlife watering;
  - (7) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
  - (8) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

6. Sludge and Biosolids Use For Domestic Wastewater Treatment Facilities

- (a) Permittee shall comply with the pollutant limitations, monitoring, reporting, and other requirements in accordance with the attached permit Standard Conditions.
- (b) If sludge is not removed by a contract hauler, permittee is authorized to land apply biosolids. Permit Standard Conditions, Part III shall apply to the land application of biosolids. Permittee shall notify the department at least 180 days prior to the planned removal of biosolids. The department may require submittal of a biosolids management plan for department review and approval as determined appropriate on a case-by-case basis.

C. SPECIAL CONDITIONS (continued)

7. Lagoons and earthen basins shall have a liner that is designed, constructed and maintained in accordance with 10 CSR 20-8.020(13)(A)4. If operating records indicate, excessive percolation, the department may require a water balance test in accordance with 10 CSR 20-8.020(16) or other investigations to evaluate adequacy of the lagoon seal. The department may require corrective action as necessary to eliminate excess leakage.
8. Filter backwash should be directed to grassed areas or other buffers to the extent possible to prevent a direct discharge to natural or constructed drainages. Effluent limitations for all discharges shall apply at the point the discharge leaves the owner's property. If necessary to meet applicable effluent limitations, retention structures, diversions or other devices may be constructed.
9. Discharge of backwash filter and pool drainage authorized by this permit are limited only in terms of water quality and other requirements specifically described or included by reference. This permit should not be considered to be protective against claims of nuisance or water damage on adjacent properties.
10. Pool chlorination must cease at least three (3) days prior to discharge of pool drainage or it must be determined that the receiving waters have a dilution ratio that is greater than 10 to 1. In either case the effluent limits (i.e. chlorine) must not be exceeded.